Averaging over multiple files

In this example we will loop over multiple files print compute the average over all these files

```
import cdms, MV
import sys
# Creates string for path to data
pth=sys.prefix+'/sample_data/'
# Creates list containg path to files
files = [ pth+'u_2000.nc',
                                            pth+'u_2001.nc',
                                              pth+'u_2002.nc',
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# Now LOOP through the files
for file in files:
                  # Open a file
                  f=cdms.open(file)
                   # Get the 'u' variable
\hat{A} \hat{A} \hat{A} u=f('u')
\hat{A} \hat{A} \hat{A} if file == files[0]: # First file
\hat{A} \hat{A} \hat{A} avg=MV.sum(u,0)  # Compute the time sum \hat{A} \hat{
                                                                                                                                                                  # Number of month in this file
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                  else:
                                                                                                                                  # Another file
\hat{A} \hat{A} \hat{A} \hat{A} \hat{A} \hat{A} \hat{A} avg=avg+MV.sum(u,0) # Compute the time sum and add it to our final variable
                                   n=n+u.shape[0]
                                     f.close()
# Now divide by the total number of times
avg=avg/n
```